



PATENT ABSTRACTS OF JAPAN

(11) Publication number: 2001131698 A

(43) Date of publication of application: 15.05.2001

(51) Int. Cl. C22C 38/00
C22C 38/54

(21) Application number: 11307645
(22) Date of filing: 28.10.1999

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(54) STEEL TUBE EXCELLENT IN SULFIDE
STRESS CRACKING RESISTANCE

of the cross section and having yield stress of ≥ 758 MPa.

(57) Abstract:

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PROBLEM TO BE SOLVED: To produce a steel tube provided with stable SSC resistance even in the case of being produced on a production line by an actual machine while having high strength in which yield stress is ≥ 758 MPa (110 ksi).

SOLUTION: This steel tube has a composition containing, by mass, 0.2 to 0.35% C, 0.05 to 0.5% Si, 0.1 to 1% Mn, $\leq 0.025\%$ P, $\leq 0.01\%$ S, 0.1 to 1.2% Cr, 0.1 to 1% Mo, 0.005 to 0.1% Al, 0.0001 to 0.01% B, 0.005 to 0.5% Nb, $\leq 0.005\%$ N, $\leq 0.01\%$ O (oxygen), $\leq 0.1\%$ Ni, Ti: 0.005 to 0.03% and also $\leq 0.00008\%$ N%, 0 to 0.5% V, 0 to 1% W, 0 to 0.1% Zr, 0 to 0.01% Ca, and the balance Fe with impurities, in which the number of TiN with a diameter of $\geq 5 \mu\text{m}$ is ≤ 10 pieces per mm^2

